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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/519,384	12/27/2004	Stig Lindemann	742111-164	6936	
	7590 01/28/201 OTKOWSKI SAFRAI		EXAM	IINER	
Intellectual Property Department			MATTIS, JASON E		
P.O. Box 10064 MCLEAN, VA 22102-8064		ART UNIT	PAPER NUMBER		
			2461		
			NOTIFICATION DATE	DELIVERY MODE	
			01/28/2010	ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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Office Action Summary

Application No.	Applicant(s)	
10/519,384	LINDEMANN, STIG	
Examiner	Art Unit	
JASON E. MATTIS	2461	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS.

WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed

after SIX (6) MONTHS from the mailing date of this communication.

- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.

Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).

Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any

earned patent term adjustment. See 37 CFR 1.704(b).

Status	
1)🛛	Responsive to communication(s) filed on 16 October 2009.
2a)⊠	This action is FINAL . 2b) This action is non-final.
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits i
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.

Disposition	of	Cla	im
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isposition of Claims
4)⊠ Claim(s) <u>16-28 and 30</u> is/are pending in the application.
4a) Of the above claim(s) is/are withdrawn from consideration.
5) Claim(s) is/are allowed.
6)⊠ Claim(s) <u>16-28 and 30</u> is/are rejected.
7) Claim(s) is/are objected to.
8) Claim(s) are subject to restriction and/or election requirement.
pplication Papers
9)☐ The specification is objected to by the Examiner.
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a),
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.
riority under 35 U.S.C. § 119
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)		b) Some c) None or.
	1.🛛	Certified copies of the priority documents have been received.
	2.	Certified copies of the priority documents have been received in Application No
	3.	Copies of the certified copies of the priority documents have been received in this National Stage
		application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)		
1) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/Si/08) Paper No(s)/Mail Date	4) Interview Summary (PTO-413) Paper No(s)Mail Date. 5) Actice of Informal Patent Application 6) Other:	
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DETAILED ACTION

 This Office Action is in response to the Amendment filed 10/16/09. Claims 1-15 and 29 have been canceled. Claims 16-28 and 30 are currently pending in the application.

Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 16-28 and 30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kostadinov (U.S. Patent 7,032,045 B2) in view of Gothe et al. (U.S. Patent 6,049,577.

With respect to claim 16, 26, and 30, Kostadinov discloses an adapter including a storage medium having instructions stored thereon for performing a method of transmitting and receiving control data from a field bus network where data is being exchanged according to a specific field bus protocol (See the abstract, column 5 lines 1-20, and Figure 2 of Kostadinov for reference to an actuator 120, which is a field bus adapter, executing software instructions stored a memory to perform a method of transmitting and receiving control data according to a field bus

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communications protocol). Kostadinov also discloses a transmitter transmitting data to the field bus network and a receiver receiving data from the field bus network (See column 5 lines 1-25 and Figure 2 of Kostadinov for reference to the actuator 120 including a communication interface that comprises a transmitter and receiver to both transmit and receive signals over the bus 110). Kostadinov further discloses a protocol detector detecting a field bus protocol between a number of predefined field bus protocols and setting up the receiver and the transmitter of the field bus adapter to communicate according to the detected field bus protocol (See column 7 lines 36-55 of Kostadinov for reference to the actuator using processor 210 to identify which field bus communications protocol of a set of communications protocols known to the actuator 120 is being used to encode signals on the bus 110). Kostadinov also discloses a means for receiving data from the field bus, a means for determining if the received data complies with predefined characteristics stored in a memory with the characteristics uniquely identifying data of only one of the number of predefined field bus protocols, and a means for setting up the receiver and transmitter of the field bus adaptor to communicate according to the one protocol if the received data complies with the characteristics (See column 8 lines 6-56, column 9 lines 40-61, and Figure 5A of Kostadinov for reference to receiving a bus signal using one of Fieldbus, Profibus, FoxCom, or HART protocols, in step 501, for reference to determining if the bus signal complies with a predefined format and length stored in a table with the format and length uniquely identifying only one of the predefined field bus protocols in steps 505, 510, and 515, and for reference to setting up the actuator

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120 to process signals according to the identified protocol if the bus signal complies with the format and length in step 520). While Kostadinov does disclose repeating detecting of field bus protocols until a unique field bus protocol is detected (See column 8 lines 41-56 and Figure 5A of Kostadinov for reference to repeating protocol detection if a unique protocol has not been identified in step 517), Kostadinov does not specifically disclose repeating protocol detection as long as characteristics exist that uniquely identify a protocol and periodically performing field bus detection at predefined intervals.

With respect to claims 16, 26, and 30, Gothe et al., in the field of communications, discloses periodically repeating protocol detection as long as characteristics exist that uniquely identify a protocol (See column 1 lines 36-52 and Figure 2 of Gothe et al. for reference to a protocol detector continuously detecting a protocol of a received signal as long as a header sync pattern, which is a characteristic that uniquely identifies a protocol exists, meaning protocol detection is repeated periodically at the rate of the received signal). Periodically repeating protocol detection as long as characteristics exist that uniquely identify a protocol has the advantage of allowing a detected protocol to be constantly updated such that multiple used protocols may be detected within a received signal.

It would have been obvious for one of ordinary skill in the art at the time of the invention, when presented with the work of Gothe et al., to combine periodically repeating protocol detection as long as characteristics exist that uniquely identify a protocol, as suggested by Gothe et al., with the system and method of Kostadinov, with

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the motivation being to allow a detected protocol to be constantly updated such that multiple used protocols may be detected within a received signal.

With respect to claims 17 and 27, Kostadinov discloses the adapter detecting two predefined field bus protocols with the protocol detector comprising a means for receiving data from the field bus, a means for determining if the data complies with predefined characteristics stored in a database uniquely identifying data of a first of the two predefined field bus protocol, a means for setting up the receiver and the transmitter for communicating according to the first predefined field bus protocol if the data complies with the characteristics, and a means for setting up the receiver and the transmitter for communicating according to a second predefined field bus protocol if the data does not comply with the characteristics (See column 8 lines 6-56, column 9 lines 40-61, and Figure 5A of Kostadinov for reference to detecting both a Foundation Fieldbus protocol and a Profibus protocol by receiving a bus signal in step 501, for reference to determining if the bus signal complies with a predefined format and length stored in a table with the format and length uniquely identifying a first one of the predefined field bus protocols in steps 505, 510, and 515, for reference to setting up the actuator 120 to process signals according to the first protocol if the bus signal complies with the format an length in step 520, and for reference to setting up the actuator 120 to process signals according to the second protocol if the bus signal does not comply with the format and length of the first protocol in step 520).

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With respect to claim 18, Kostadinov discloses the characteristics uniquely identifying frames of one of the predefined field bus protocols (See column 8 lines 6-56 and Figure 5A of Kostadinov for reference to using the Foundation Fieldbus protocol and the Profibus protocol, which both send data in data frames comprising a number of fields and for reference to using the characteristics of received data frames to identify a field bus protocol).

With respect to claim 19, Kostadinov discloses the characteristics comprising the content of specific fields of the data frame (See column 8 lines 6-56 and Figure 5A of Kostadinov for reference to using specific field contents of received Foundation Fieldbus protocol frames and Profibus protocol frames to identify the protocol of the received frames).

With respect to claim 20, Kostadinov discloses the characteristics comprising the length of a data frame (See column 8 lines 6-56 and Figure 5A of Kostadinov for reference to using the length of a received signal to identify the protocol of the signal).

With respect to claim 21, Kostadinov discloses detecting the protocol based on more than one frame (See column 8 lines 6-56 and Figure 5A of Kostadinov for reference to using multiple received bus signals to detect a protocol if the protocol cannot be identified based on the first received bus signal).

With respect to claim 22, Kostadinov discloses that the first protocol is Profibus and the second field bus protocol is Foundation Fieldbus (See column 8 lines 6-56 and

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Figure 5A of Kostadinov for reference to for reference to identifying both Profibus and Foundation Fieldbus protocols).

With respect to claim 23, Kostadinov discloses using the content of the first field in the data frame and the length of the data frame to uniquely identify a Foundation Fieldbus protocol (See column 8 lines 6-56 and Figure 5A of Kostadinov for reference to using the data of a first byte of a data frame and the length of the data frame to identify a Foundation Fieldbus protocol).

With respect to claim 24, Kostadinov discloses the control data being a value representing a measured physical value (See column 4 lines 7-16 and column 5 lines 21-25 of Kostadinov for reference to the sending and receiving signals representing measured physical values, for example, a measured temperature, pressure, flow rate, etc.).

With respect to claim 25, Kostadinov discloses the adapter comprising a means for measuring the physical value (See column 4 lines 7-16 and column 5 lines 21-25 of Kostadinov for reference to the actuator 120 including a sensor 230 to measure the physical value).

With respect to claim 28, Kostadinov discloses performing the step of detecting and setting up only in an initialization phase before transmitting and receiving control data via the field bus network (See column 10 line 57 to column 11 line 11 and Figure 6 of Kostadinov for reference to only performing protocol detection as an initialization procedure for the actuator 120).

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Response to Arguments

 Applicant's arguments filed 10/16/09 have been fully considered but they are not persuasive.

Regarding Applicant's argument that Kostadinov does not disclose an adapter, as claimed, since the device disclosed by Kostadinov is a complete computer system, unlike the claimed adapter, which is only able to convert data into a field bus protocol or receive data from the field bus protocol and convert the data to other types of data, the Examiner respectfully disagrees. As shown in the rejections above, the combination of Kostadinov and Gothe et al. discloses each of the elements of independent claims 16, 26, and 30. While it is true that the device of Kostadinov does have further functions beyond that of the claimed adapter, there is currently no language in the claims that precludes the claimed adapter from performing these or other functions. Thus, the Applicant's argument is moot. Further, even if the claims were amended such that the claimed adapter was to only perform the functions as argued by the Applicant and not perform any other functions, it is still believed that the combination of Kostadinov and Gothe et al. does render obvious such an adaptor. It has been held that to make prior art parts separable does not make the claimed invention patentable over that prior art (Nerwin v. Erlichman, 168 USPQ 177). Thus, it is an obvious variation of the device of Kostadinov to separate the functionalities of the device of Kostadinov into different separate devices, such that one device performs only the functions of an adaptor, as argued by the Applicant.

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Conclusion

 THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JASON E. MATTIS whose telephone number is (571)272-3154. The examiner can normally be reached on M-F 8AM-5:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Huy Vu can be reached on (571)272-3155. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Jason E Mattis Primary Examiner Art Unit 2461

JEM

/Jason E Mattis/ Primary Examiner, Art Unit 2461